

# DVD RECEIVER XV-HTD510

# SPEAKER SYSTEM S-HTD510

**Operating Instructions** 





#### **WARNING:** TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



CAUTION: TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

#### [FOR U.S. MODEL] CAUTION

- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- The use of optical instruments with this product will increase eye hazard.

#### Information to User

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### IMPORTANT NOTICE

#### [For U.S. model]

The serial number for this equipment is located on the rear panel. Please write this serial number on your enclosed warranty card and keep it in a secure area. This is for your security.

THE STANDBY/ON BUTTON IS SECONDARY CONNECTED AND THEREFORE DOES NOT SEPARATE THE UNIT FROM MAINS POWER IN STANDBY POSITION.

#### [For U.S. model]



As an ENERGY STAR<sup>®</sup> Partner, Pioneer Corporation has determined that this product meets the ENERGY STAR<sup>®</sup> guidelines for energy efficiency. K001 En

### [For Canadian model]

**CAUTION**: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

**ATTENTION:** POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSERESS A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

If the socket outlets on the associated equipment are not suitable for the plug supplied with the product, the plug must be removed and an appropriate one fitted. Replacement and mounting of an AC plug on the power supply cord of this unit should be perfomed only by qualified service personnel. The cut-off plug must be disposed of as an electrical shock hazard could exist if connected to a socket outlet.

#### [For Canadian model]

This Class B digital apparatus complies with Canadian ICES-003.

#### [Pour le modèle Canadien]

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

## **IMPORTANT SAFETY INSTRUCTIONS**

- READ INSTRUCTIONS All the safety and operating instructions should be read before the product is operated.
- **RETAIN INSTRUCTIONS** The safety and operating instructions should be retained for future reference.
- HEED WARNINGS All warnings on the product and in the operating instructions should be adhered to.
- FOLLOW INSTRUCTIONS All operating and use instructions should be followed.
- CLEANING Unplug this product from the wall outlet before cleaning. The product should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzine, insecticides or other volatile liquids since they may corrode the cabinet.
- **ATTACHMENTS** Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- WATER AND MOISTURE Do not use this product near water — for example, near a bathtub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- ACCESSORIES Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
- CART A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

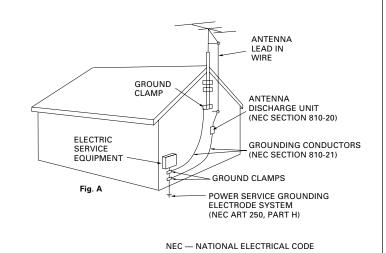


- VENTILATION Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- POWER SOURCES This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.
- LOCATION The appliance should be installed in a stable location. NONUSE PERIODS – The power cord of the
- NONUSE PERIODS The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

#### GROUNDING OR POLARIZATION

- If this product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other), it will fit into the outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- If this product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin, it will only fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.
- POWER-CORD PROTECTION Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
- OUTDOOR ANTENNA GROUNDING If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrode. See Figure A.
- LIGHTNING For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- POWER LINES An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- OVERLOADING Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

- **OBJECT AND LIQUID ENTRY** Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- SERVICING Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- DAMAGE REOUIRING SERVICE Unplug this product from the wall outlet and refer servicing to qualified service personnel under the
- following conditions:
  When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
   If the product has been dropped or damaged in
- any way. When the product exhibits a distinct change in
- When the product exhibits a distinct change in performance — this indicates a need for service.
   REPLACEMENT PARTS — When replacement
- parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- SAFETY CHECK Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- WALL OR CEILING MOUNTING The product should not be mounted to a wall or ceiling.
- HEAT The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.



### Energy-saving design

This system is designed to use 1W of electricity when power is switched to Standby.

This product is for general household purposes. Any failure due to use for other than household purposes (such as long- term use for business purposes in a restaurant or use in a car or ship) and which requires repair will be charged for even during the warranty period.





### Dear Customer:

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion-and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

#### To establish a safe level:

• Start your volume control at a low setting.

• Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

#### Once you have established a comfortable sound level:

• Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

### We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

#### Decibel

#### Level Example

- 30 Quiet library, soft whispers
- 40 Living room, refrigerator, bedroom away from traffic
- 50 Light traffic, normal conversation, quiet office
- 60 Air conditioner at 20 feet, sewing machine
- 70 Vacuum cleaner, hair dryer, noisy restaurant
- 80 Average city traffic, garbage disposals, alarm clock at two feet.

#### THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE

- 90 Subway, motorcycle, truck traffic, lawn mower
- 100 Garbage truck, chain saw, pneumatic drill
- 120 Rock band concert in front of speakers, thunderclap
- 140 Gunshot blast, jet plane
- 180 Rocket launching pad

Information courtesy of the Deafness Research Foundation.





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### Features

- Superlative audio performance with Dolby Digital\* and DTS\*\* software The XV-HTD510 delivers breathtaking sound quality with Dolby Digital and DTS discs.
- **Graphical Setup Navigator** Setting up your home theater is easy using the graphical Setup Navigator. Answer the questions that appear on-screen and the Setup Navigator makes the necessary video and language settings for you.

• This product incorporates copyright protection technology that is protected by method claims of certain U. S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

\* Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. © 1992-1997 Dolby Laboratories. All rights reserved.

\*\* "DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.

### What's in the box

Confirm that the following accessories are in the box when you open it.

- Remote control
- AA/R6P dry cell batteries x2
- AM loop antenna
- FM antenna
- Video cord (yellow)
- Power cord
- These operating instructions
- Warranty card
- Speaker cords 5m (16 ft. 5 in.) x2 (for front L-R speakers)
- Speaker cord 2m (6 ft. 7 in.) x1 (for center speaker)
- Speaker cords 6m (19 ft. 8 in.) x2 (for rear L-R speakers)
- Speaker cord 3m (9 ft. 10 in.) x1 (for subwoofer)

### Using this manual

This manual is for the XV–HTD510 DVD Receiver. It is divided into several sections: system basics and connecting up (chapters 1 and 2); an explanation of the controls and displays (chapter 3); setting up for surround sound and other preferences (chapter 4); getting started (chapter 5); advanced features (chapters 6–9); system settings and preferences (chapter 10). Chapter 11 provides additional information, including a glossary of terms used in this manual, and a troubleshooting section. Putting the batteries in the remote control

1 Open the battery compartment cover on the back of the remote control.



2 Insert two AA/R6P batteries into the battery compartment following the indications  $(\oplus, \bigcirc)$  inside the compartment.



3 Close the cover.





Caution

• Remove the batteries if the remote is not going to be used for a month or more.

Remove dead batteries promptly-they can leak • and damage the unit.

When disposing of used batteries, please comply ٠ with governmental regulations or environmental public institution's rules that apply in your country or area.

### Using the remote control

Keep in mind the following when using the remote control:

- Make sure that there are no obstacles between the remote control and the remote sensor on the unit.
- Use within 7 meters (21 feet) of the remote sensor and at an angle of less than 30°.
- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the unit's remote sensor.
- Remote controllers for different devices can interfere with each other. Avoid using remotes for other equipment located nearby this unit.
- Replace the batteries when you notice the operating range of the remote starts to decrease.

### Hints on installation

We want you to enjoy using this unit for years to come, so please bear in mind the following points when choosing a suitable location for it:

#### Do....

✓ Use in a well-ventilated room.

✓ Place on a solid, flat, level surface, such as a table, shelf or stereo rack.

#### Don't...

X Use in a place exposed to high temperatures or humidity, including near radiators and other heatgenerating appliances.

X Place on a window sill or other place where the system will be exposed to direct sunlight.

X Use in an excessively dusty or damp environment.

X Place directly on top of an amplifier, or other component in your stereo system that becomes hot in use.

★ Use near a television or monitor as you may experience interference—especially if the television uses an indoor antenna.

 $\checkmark$  Use in a kitchen or other room where the system may be exposed to smoke or steam.

★ Use on a thick rug or carpet, or cover with cloth this may prevent proper cooling of the unit.

➤ Place on an unstable surface, or one that is not large enough to support all four of the unit's feet.

### Avoiding problems with condensation

Condensation may form inside the system if it is brought into a warm room from outside, or if the temperature of the room rises quickly. Although the condensation won't damage the system, it may temporarily impair its performance. For this reason you should leave it to adjust to the warmer temperature for about an hour before switching on and using.

### Moving the system

If you need to move the system, first switch it off and unplug from the wall outlet. Never lift or move the unit during playback—discs rotate at a high speed and may be damaged.

### Discs compatible with this system

Any disc that displays one of the following logos should play in this system. Other formats, including DVD-RAM, DVD-ROM, DVD-Audio, CD-ROM, SACD and Photo CD will not play.



### **DVD Video compatibility:**

- Single-sided or double-sided discs
- Single layer or dual layer discs
- Dolby Digital, DTS, MPEG or Linear PCM digital audio
- MPEG-2 digital video

DVD discs are generally divided into one or more titles. Titles may be further subdivided into chapters.



### Audio CD compatibility:

- 12cm or 8cm (5" or 3") discs
- Linear PCM digital audio
- CD-Audio, CD-R\* and CD-RW\* formats

CDs are divided into tracks.

\* This system can play CD-R and CD-RW discs recorded with audio. However, depending on the condition of the player and the disc, you may find that not all discs will play successfully. (For example, if the disc is scratched or dirty, or if the player's pickup lens is dirty.) Note that this unit cannot record onto recordable discs.



#### Video CD compatibility:

- 12cm or 8cm (5" or 3") discs
- MPEG-1 digital audio
- MPEG-1 digital video

Video CDs are divided into tracks.

#### **DVD Video regions**

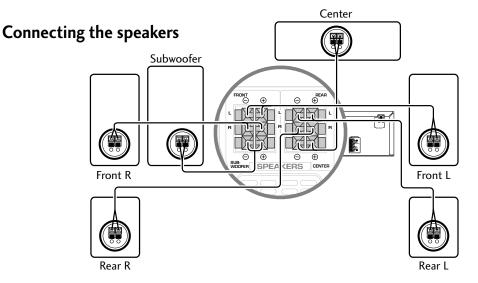


All DVD Video discs carry a region mark on the case somewhere that indicates which region(s) of the world the disc is compatible with. Your DVD system also has a region mark, which you can find on the rear panel. Discs from incompatible regions will not play in this system. Discs marked **ALL** will play in any player.

### **Connecting Up**

### Important

Before making or changing any rear panel connections, make sure that all the components are switched off and unplugged from the power supply.

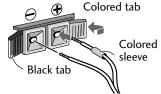


The speaker terminal tabs and supplied speaker cables are color-coded for simpler connection.

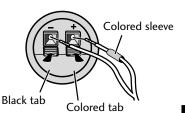
- 1 Use the speaker cables with the red sleeves to connect the front speakers to the FRONT L and FRONT R terminals.
- 2 Use the speaker cables with the blue sleeves to connect the rear speakers to the REAR L and REAR R terminals.
- 3 Use the speaker cable with the grey sleeves to connect the subwoofer to the SUBWOOFER terminals.
- 4 Use the speaker cable with the green sleeves to connect the center speaker to the CENTER terminals.

For proper sound, it's important to connect the positive (colored) and negative (black) terminals for each speaker correctly.

- 1 Twist off the protective covers on the ends of the speaker cable.
- 2 Press the speaker terminal tabs to open and insert the wire with the colored sleeve into the colored terminal and the other wire into the black terminal.
- 3 Release the speaker terminal tabs to secure the speaker cable. → Colored t



4 Connect the other end of the cable to the speaker in the same way.



### 0

### Caution

Do not connect any of the supplied speakers to any other amplifier. This may result in malfunction or fire.

This DVD receiver has been designed for best performance when connected to the supplied speakers. We do not, therefore, recommend that you connect and use other speakers with this system.

### Placing the speakers

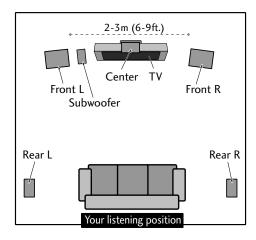
Where you put your speakers in the room has a big effect on the quality of the sound. The following guidelines should help you to get the best sound from your system.

• The subwoofer can be placed on the floor. Ideally, the other speakers should be at about ear-level when you're listening to them. Putting the speakers on the floor (except the subwoofer), or mounting them very high on a wall is not recommended.

• For the best stereo effect, place the front speakers 2–3m (6–9ft.) apart.

• The rear speakers should not be further away from your listening position than the front speakers.

• The center speaker should be as close as possible to the TV screen so that movie dialog is localized properly.



### 🖉 Note

If you install the center speaker on top of your TV, be sure to secure it with tape or by some other suitable means. An unsecured speaker may fall from the TV due to external shocks such as earthquakes, endangering those nearby or damaging the speaker.

### Important

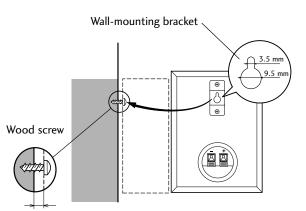
The front and center speakers supplied with this system are magnetically shielded. However, placing them extremely close to a television may result in color distortion on the screen. If this happens, move the speakers a little further away and switch off the television for 15–30 minutes.

The rear speakers and subwoofer are not magnetically shielded, so they should not be placed near a TV or monitor.

### Wall mounting the rear speaker system

### Before mounting

• Remember that this speaker system is heavy and that its weight may cause the wood screw to work loose or the wall to fail to support it, in which case the speaker system may fall on the floor. This is extremely dangerous. Make absolutely sure that the wall is sturdy enough to support the weight of the speaker system. Do not mount it on plywood boards or soft-surface walls. The mounting screws are not included with this unit. Please find the correct screws for your application.



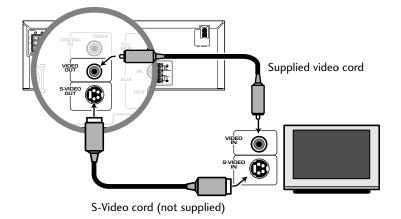
Protrude:5-7mm

💋 Note

• If you are unsure of the qualities and strength of the walls, consult a professional for advice.

• PIONEER is not responsible for any accidents or damage that result from improper installation.

### Connecting to your TV



### Use the supplied yellow video cord to connect the VIDEO OUT jack to a video input on your TV.

Alternatively, you can use an S-Video cable (not supplied) to connect the **S-VIDEO OUT** jack to an S-Video input on your TV. S-Video should give you better picture quality than using the standard **VIDEO OUT**.

• See *S-Video Out* on page 36 for how to change the S-Video setting between S1 and S2 format.

# 2 Optionally: Use a stereo audio cord to connect the audio outs of your TV (or VCR) to the TV/VCR IN jacks.

This will enable you to hear the TV (or VCR) sound through this system.

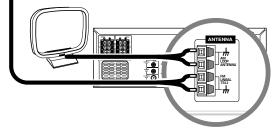
• If you want to connect both your TV and VCR, use the **TV/VCR IN** jacks for one and the **AUX IN** jacks for the other.

### Note

Placing the main unit too close to your TV may cause interference, especially if you're using an indoor antenna. If you notice interference, move the unit away from the TV.

### Connecting the supplied antennas

FM wire antenna AM loop antenna

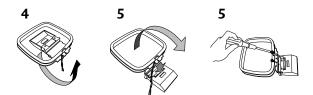


The supplied antennas provide a simple way to listen to AM and FM radio. If you find that reception quality is poor, an outdoor antenna should give you better sound quality—see *Connecting external antennas* below for more on how to do this.

#### AM loop antenna

- 1 Pull off the protective shields of both AM antenna wires.
- 2 Press the antenna terminal tabs to open and insert one wire into each terminal.
- 3 Release the tabs to secure the AM antenna wires.
- 4 Bend the stand in the direction indicated by the arrow.
- 5 Clip the loop onto the stand.
- 6 Place the AM antenna on a flat surface and point in the direction giving the best reception.

Avoid placing near computers, television sets or other electrical appliances and do not let it come into contact with metal objects.



It's also possible to fix the AM antenna to a wall. When installing on a wall or other surface, perform steps 4 and 5 after first securing the stand with screws. Before fixing, make sure that the reception is satisfactory.

#### FM wire antenna

 Connect the FM wire antenna to the FM UNBAL 75Ω terminals in the same way as the AM loop antenna.

For best results, extend the FM antenna fully and fix to a wall or door frame. Don't drape loosely or leave coiled up.

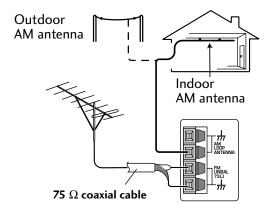
### 🖉 Note

The signal earth  $(\tau + \tau)$  is designed to reduce noise that occurs when an antenna is connected. It is not an electrical safety earth.

### **Connecting external antennas**

#### **External AM antenna**

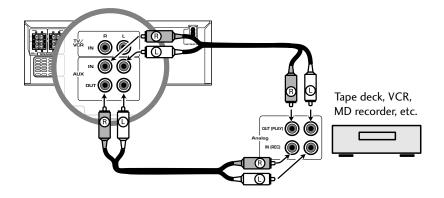
Use 5-6 meters (15-18 ft.) of vinyl-insulated wire and set up either indoors or outdoors. Leave the supplied AM loop antenna connected.



### **External FM antenna**

Use  $75\Omega$  coaxial cable to hook up an external FM antenna. Do not leave the supplied FM wire antenna attached.

### **Connecting other components**



1 Use a stereo audio cable to connect the AUX IN jacks to the analog outputs of an external component.

This will allow you to play the component through this system.

2 Use a stereo audio cable to connect the AUX OUT jacks to the analog inputs of an external component.

This will allow you to record from this system to an external tape/MD/CD recorder.

**3** Use a digital coaxial cable to connect the DIGITAL IN COAX jack to the digital output of an external component.

This will allow you to play a digital audio component (MD player, etc.) through this system.

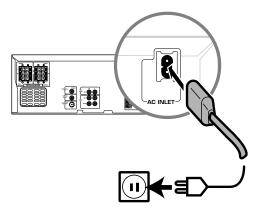
### Important

The **DIGITAL IN COAX** jack should only be connected to a PCM audio output (32, 44.1 or 48kHz). These include CD, MD and DAT players and satellite receivers. Check the instructions that came with your other component for more details.

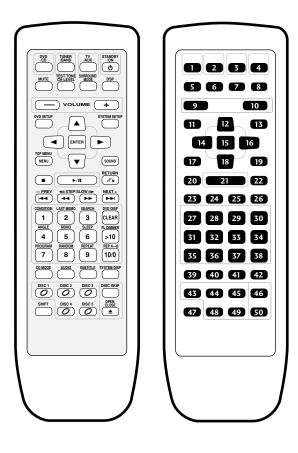
### Connecting the power

Before connecting the power and switching on for the first time make sure that everything is connected properly.

- 1 Plug one end of the supplied power cord into the AC INLET.
- 2 Plug the other end into a household power outlet.



### **Remote control**



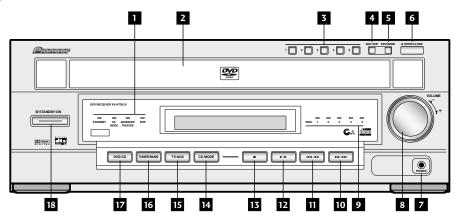
- **1 DVD/CD** Pages 19, 31
- **2 TUNER/BAND** Pages 21-22, 31
- 3 TV/AUX Pages 22, 31
- 4 STANDBY/ON Page 19
- **5 MUTE** Silences/restores all sound.
- 6 TEST TONE/CH LEVEL Page 17
- **7** SURROUND MODE Pages 17, 24
- **8 DSP** Page 24
- **9 VOLUME** Lowers the volume.
- **10 VOLUME +** Raises the volume.
- **11 DVD SETUP** Pages 18, 35
- **12 Cursor up** Use for navigating menus and on-screen displays.
- **13 SYSTEM SETUP** Pages 16, 22, 31-34, 41
- **14 Cursor left** Use for navigating menus and on-screen displays.

#### 15 ENTER

- **16 Cursor right** Use for navigating menus and on-screen displays.
- 17 MENU Page 20 TOP MENU Page 20
- 18 Cursor down Use for navigating menus and on-screen displays.
- **19 SOUND** Page 24
- **20** Page 19
- **21** ►/II Page 19
- 22 RETURN & Page 20
- **23 |**◀◀ **/ –PREV** Pages 19-20
- **24 4** / **STEP/SLOW 4** II Pages 19-20
- **25 ►► / STEP/SLOW II►** Pages 19-20
- **26** ►► / NEXT+ Pages 19-20
- 27 1 / CONDITION (SHIFT & 1) Page 30
- 28 2 / LAST MEMO (SHIFT & 2) Page 29
- 29 3 / SEARCH (SHIFT & 3) Page 26
- 30 CLEAR Clears/cancels various functions DVD DISP (SHIFT & CLEAR) Page 30
- 31 4 / ANGLE (SHIFT & 4) Page 26
- 32 5 / MONO (SHIFT & 5) Page 22
- 33 6 / SLEEP (SHIFT & 6) Page 32
- **34** >10 Selects numbers over 10 Page 20
- FL DIMMER (SHIFT & >10) Page 41
- **35 7** / **PROGRAM (SHIFT & 7)** Page 28
- **36 8 / RANDOM (SHIFT & 8)** Page 28
- **37 9 / REPEAT (SHIFT & 9)** Page 28
- **38 REP A–B (SHIFT & 10/0)** Page 29 **10/0** Number button (10 and 0)
- **39 CD MODE** Page 29
- **40 AUDIO** Page 26
- **41 SUBTITLE** Page 26
- 42 SYSTEM DISP Page 16
- 43 DISC 1 Page 20
- **44 DISC 2** Page 20
- 45 DISC 3 Page 20
- **46 DISC SKIP** Pages 19, 21
- 47 SHIFT Hold down to access secondary button functions
- 48 DISC 4 Page 20
- 49 DISC 5 Page 20
- **50 OPEN/CLOSE** ▲ Pages 19, 21

### **Controls & Displays**

### **Front panel**

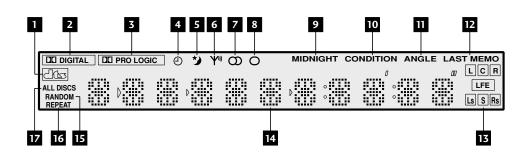


- 1 STANDBY indicator CD MODE indicator ADVANCED THEATER indicator DSP indicator
- 2 Disc tray
- 3 Disc buttons Page 20
- 4 DISC SKIP Pages 19, 21
- 5 EXCHANGE Page 21

Display

- 6 ▲ OPEN/CLOSE Pages 19, 21
- **7 PHONES** Plug in a pair of headphones here.
- **8 VOLUME** Turn to adjust the volume.

- 9 DISC indicators
- **10** ►► ►► Pages 19-20
- **11** | **4 4** Pages 19-20
- 12 ►/ II Page 19
- **13** Page 19
- 14 CD MODE Page 29
- 15 TV/AUX (/DIGITAL IN) Pages 22, 31
- 16 TUNER/BAND Pages 21-22
- **17 DVD/CD** Pages 19, 31
- 18 STANDBY/ON Page 19



- **1 DTS** page 42
- 2 DCI DIGITAL pages 23, 42
- **3 DEI PRO LOGIC** page 23
- 4 <sup>(c)</sup> Timer indicator page 31
- **5 Sleep indicator** page 32
- 6  $\Psi$  Tuned indicator page 21–22
- **7 O FM** stereo indicator page 22
- 8 **O FM mono indicator** page 22
- 9 MIDNIGHT page 25
- 10 CONDITION page 30

- 11 ANGLE page 26
- **12 LAST MEMO** page 29
- **13 Channel indicators** Show which channels are available on the current disc.
- 14 Character display When playing discs : Left to right displays disc number, title, chapter/track, minutes, seconds.
- **15 RANDOM** page 28
- 16 REPEAT page 28
- **17 DISC | ALL DISCS** Indicates the random or repeat mode; page 28–29

### Switching on and setting the clock

This system has a built-in clock, which needs to be set to be able to use the timer features.



- 1 Press & to switch on.
- 2 Press SYSTEM SETUP.
- 3 Press the ◄ or ► button until you see TIMER in the display.
- 4 Press ENTER.
- **6 Press ENTER.** The display shows a clock, with the hour blinking.
- 7 Use the ▲ and ▼ buttons to set the hour, then press ENTER.
- 8 Use the ▲ and ▼ buttons to set the minute, then press ENTER.

The display blinks to indicate that the time has been set.

### 🖨 Тір

• Press **SYSTEM DISP** anytime to see the clock when the system is on or in standby.

### Setting up for surround sound

You can use this system right out of the box for surround sound with just the default settings. However, for really great surround sound, we recommend that you spend a few minutes making some settings that match this system to your listening room. Unless you change the layout of your speakers or main listening position, you only need to make most of these settings once.



### Setting the speaker distances

- 1 Press SYSTEM SETUP.
- 2 Press the ◀ or ► button until you see FRT. SP in the display.
- 3 Use the ▲ and ▼ buttons to set the distance from your main listening position to the front speakers.

Ideally, your listening position should be equidistant from the two front speakers.

The default setting is 3m. You can adjust the range from 0.3m to 9.0m in steps of 0.3m.

- 4 Press ► to move on to the CENTER speaker setting.
- 5 Use the ▲ and ▼ buttons to set the distance from your main listening position to the center speaker.

The default setting is 3m. You can adjust the range from 0.3m to 9.0m in steps of 0.3m.

- 6 Press ► to move on to the SURROUND speakers setting.
- 7 Use the ▲ and ▼ buttons to set the distance from your main listening position to the surround speakers.

Ideally, your listening position should be equidistant from the surround speakers.

The default setting is 3m. You can adjust the range from 0.3m to 9.0m in steps of 0.3m.

#### 8 Press ENTER to exit.

• The setting mode is automatically exited if no operation is performed within 20 seconds.

- There are several other settings that you can make from the System Setup menu to further tailor your surround sound. See chapter 9 for more on this.
- The speaker distance settings have no effect when the surround mode is set to **VIR.SURR.1** or **VIR.SURR.2**. See page 23 for more on surround modes.

#### 🖉 Note

You can't make these settings with the Record mode on. See page 25 for how to switch the Record mode on/off.

### Balancing the surround sound

You can further improve surround sound performance by balancing the levels from the subwoofer, center and surround speakers relative to the front left/right speakers. To help you judge the sound level of each speaker a test tone is played through each speaker in turn (make sure that there are no headphones connected). Adjust the levels until they all sound equal.

The levels you set here will apply to all surround modes. However, you can set levels independently for each DSP mode.

### 🖉 Note

It may not be possible to accurately adjust the subwoofer level using this method. You may prefer to leave it on its default setting and adjust it to your liking later when playing surround-sound sources.

• You cannot change the DSP mode when Record mode is active (see *Direct recording* on page 25).

#### 1 Press SURROUND MODE.

The surround mode can be set to anything except **SURROUND OFF** or **AUTO** (No test tone is output in these modes.)

- 2 Set the volume to a moderate level.
- 3 Press TEST TONE (SHIFT & CH LEVEL) to start the test tone then adjust the volume to a suitable level.

The test tone plays through each speaker in turn:

- Front left
- Center
- Front right
- Surround right
- Surround left
- Subwoofer
- 4 Use the ▲ and ▼ buttons to adjust the level of a speaker as the test tone plays. For best results, sit in your main listening position when doing this. You can adjust each speaker in the range of +/-10dB.

### 5 When you're done, press TEST TONE (SHIFT & CH LEVEL) to turn off the test tone.

### Using the Setup Navigator

Before playing any discs, we strongly recommend using the Setup Navigator. This makes all the basic DVD system settings for you.



### 1 Make sure that the system is switched on.

Also turn on your TV and make sure that it is set to the correct video input.

• If a disc that's already loaded starts to play, press ■ to stop it.

### 2 Press DVD SETUP.

The Setup Navigator on-screen display (OSD) appears:



Navigate all of the following OSDs using these controls:

▲, ▼ – cursor up/down

 $\ensuremath{\mathsf{ENTER}}$  – select the highlighted menu option

 $\blacktriangleleft$  – go back to the previous question

The control possibilities for the current OSD are shown at the bottom of each screen.

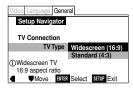
### 3 Select START.

• If you decide not to use the Setup Navigator, select **Auto Start Off** here instead.

### 4 Choose an OSD menu language.



### 5 Select the type of TV you have.



• See *Aspect ratio* in the glossary on page 42 if you're unsure of the difference between widescreen and standard TVs.

Select Save Changes to make the settings.

#### Video Languagu General Setup Navigator Exit Setup Navigator Delete Changes Start Again

#### Move ENTER Select SETUR Exit

6

#### 7 Press DVD SETUP to exit.

Congratulations, set up is complete!

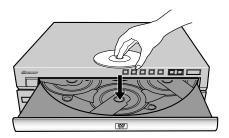
If you want to use the Setup Navigator again at any time, it is available from the **General** menu. Also, each individual setting can be changed using the appropriate menu option—chapter 10 explains all menu options in detail.

### Playing DVDs, CDs and Video CDs

The basic controls for playing discs are covered here. Further functions are detailed in the chapter 7.



- 1 Press STANDBY/ON 0 to turn on the player.
- 2 Press DVD/CD.
- 3 Press OPEN/CLOSE ▲ to open the disc tray.
- 4 Load a disc.



Load a disc with the label side facing up, using the disc tray guide to align the disc (if you're loading a double-sided DVD disc, load it with the side you want to play face down).

If you want to load more discs, press **DISC SKIP** to rotate the disc tray. You can load up to five discs at once.

• Do not place discs in the two partially accessible disc spaces, as it's easy to misalign them. Use only the front-most space.

• When using the **DISC SKIP** button, wait until the disc tray has come to a complete stop before loading a disc; the player may malfunction if a disc is caught in the disc tray mechanism.

• Do not rotate the disc tray by hand. Always use the **DISC SKIP** button.

5 Press ►/II to start playback of the disc just loaded.

• If you're playing a DVD or Video CD, a menu may appear. See page 20 for how to navigate these.

### **Basic playback controls**

Button	What it does
►/11	Starts playback or pauses a disc that's playing (press again to restart playback). DVD and Video CD only: Resumes playback of a stopped disc.
•	Stops playback. DVD and Video CD only: Display shows resume (press ▶/II to start playback again from the last place stopped).
	Press & hold for fast reverse scanning. (After 5 seconds, scanning continues even after releasing the button: press ►/II to resume normal playback.) On the front panel use: I◄◄·◄◄
**	Press & hold for fast forward scanning. (After 5 seconds, scanning continues even after releasing the button: press ►/II to resume normal playback.) On the front panel use: ►►·►►I
	Skips to the start of the current track or chapter, then to previous tracks/chapters. On the front panel use: I
	Skips to the next track or chapter. On the front panel use: ►►·►►I

Numbers	If the disc is stopped, playback starts from the selected track or title number. If the disc is playing, playback jumps to the start of the selected track or chapter number.
>10	Selects tracks/titles/chapters 11 and over. (For example, for 24, press >10 , 2, 4.)
DISC 1–5	Starts playing the selected disc. (On the front panel use: 1–5)

#### DVD and Video CD only:

II► (SHIFT►►) During playback, press and hold to start slow-motion forward scanning. Change the speed using the **◄II** and **II►** buttons. During playback, press once to pause; advance a single frame with each subsequent press.

#### DVD only:

 I(SHIFT <</li>
 During playback, press and hold to start slow-motion reverse scanning. During playback, press once to pause; reverse a single frame with each subsequent press.

### Important

While using the DVD playback controls, you may see the mark displayed on-screen.

Some means that the operation is not allowed by the system.

Solution we are the operation is not allowed by the disc.

#### Navigating DVD disc menus

Some DVD discs contain menus. Sometimes these are displayed automatically when you start playback; others only appear when you press menu or top menu.

Button	What it does			
TOP MENU (SHIFT MENU)	Displays the 'top menu' of a DVD disc— this varies with the disc.			
MENU	Displays a DVD disc menu—this varies with the disc and may be the same as the 'top menu'.			
RETURN	Returns to the previously displayed menu screen.			
<b>◄►▲▼</b>	Moves the cursor around the screen			
ENTER	Selects the current menu option			
Numbers	Selects a numbered menu option (some discs only)			

### Navigating Video CD PBC menus

Some Video CDs have menus from which you can choose what you want to watch. These are called PBC (Playback control) menus, and are displayed automatically when you start playback.

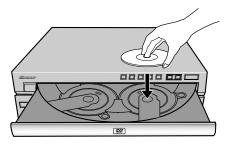
You can switch PBC off by starting playback using a number button to select a track, rather than the  $\blacktriangleright/\blacksquare$  button.

Button	What it does		
RETURN	Displays the PBC menu.		
Numbers	Selects a numbered menu option.		
<b> </b>	Displays the previous menu page (if there is one).		
	Displays the next menu page (if there is one).		
►/II	Press to select an item from a PBC menu.		

### **Exchanging discs**

You can change any of the discs not in the play position using the **EXCHANGE** button. Because the disc in the play position is unaffected, you can use this button to change discs even during playback.

- 1 Press EXCHANGE to open the disc tray without interrupting playback.
- 2 Load a disc.



You can load two discs at a time in the two fully accessible disc spaces. Do not try and load discs into any of the other spaces; they may not load correctly and cause the unit to malfunction.

- 3 If you want to load more discs, press DISC SKIP to rotate the disc tray.
- 4 Press ▲ OPEN/CLOSE or EXCHANGE to close the disc tray.

• Do not push the disc tray shut by hand after exchanging discs.

### Listening to the radio

The following steps show you how to tune in to FM and AM radio broadcasts using the automatic (search) and manual (step) tuning functions. Once you are tuned to a station you can memorize the frequency for recall later—see *Saving station presets* on page 22 for more on how to do this.



1 Press TUNER/BAND to select the tuner. On the remote, press repeatedly to switch between FM and AM bands. On the front panel, the **TUNER/BAND** button switches between FM, AM and preset station mode. For now, choose either FM or AM.

#### 2 Tune to a station.

There are three ways to do this:

#### • Automatic tuning

To search for stations in the currently selected band, press and hold either the  $\blacktriangleleft \lhd$  or  $\blacktriangleright \succ$  button for about a second. The system will start searching for the next station, stopping when it has found one. Repeat this step to search for other stations. Every time searching stops on a station, the  $\Psi^{(1)}$ (tuned) indicator lights in the display.

#### • Manual tuning

To change the frequency one step at a time, press the  $\checkmark$  /  $\triangleright$  buttons. When you locate a station signal, the  $\checkmark$ <sup>(1)</sup>(tuned) indicator lights in the display.

#### • High-speed tuning

Press and hold the  $\blacktriangleleft$  or  $\triangleright \triangleright$  button for high speed tuning, releasing the button once you reach the frequency you want. When you stop on a station signal, the  $\Upsilon$  (tuned) indicator lights in the display.

#### Improving FM stereo sound

If you're listening to a stereo FM broadcast, but find that there is a lot of noise because of a weak signal, try switching to mono.

# • Press MONO (SHIFT & 5) to switch between mono and stereo.

When listening in mono, the O indicator lights in the display.

#### Saving station presets

If you often listen to a particular radio station, it's convenient to have the receiver store the frequency for easy recall whenever you want to listen to that station. This saves the effort of manually tuning in each time. This system can save up to 30 station presets. When saving FM frequencies, the receiver also saves the mono setting (see *Improving FM stereo sound* above).

### **1 Tune to a station you want to memorize.** See *Listening to the radio* on page 21 for more on how to do this.

2 Press SYSTEM SETUP.

- 3 Press d or ► until you see ST. MEMORY appear in the display.
- 4 Press ENTER.

# 5 Press *◄* or *▶* to select a station preset number.

Alternatively, use the number buttons (use the **>10** button for numbers over 10).

If you use the number buttons, you can skip step 6.

# 6 Press ENTER again to save the station preset.

Repeat these steps to save up to 30 station presets.

#### Listening to station presets

Having saved up to 30 station presets, you can be listening to a station with a couple of button presses.

1 Press TUNER/BAND to switch to the tuner.

If you're using the front panel controls, press **TUNER/BAND** repeatedly to select the preset station mode.

2 Use I or ►►I to select the station preset you want to listen to.

Alternatively, use the number buttons (use the **>10** button for numbers over 10).

• If the system is left disconnected from the AC power outlet for a lengthy period, the station presets will be lost and will have to be reprogrammed.

### Listening to other components

You may have connected your TV, VCR, or other components to play through this system. Use the **TV/AUX** button to select your external equipment as the source.

#### 1 Press TV/AUX.

Press repeatedly to switch between:

- **TV** inputs
- **DIGITAL** input
- AUX analog inputs

#### 2 Start playing the source component.

### Adjusting the bass and treble

The simplest way to shape the sound is by adjusting the amount of bass and treble.

### 💋 Note

• The bass and treble controls have no effect when using the DSP modes, or when the surround mode is set to anything other than **STANDARD**, **AUTO** or **SURR. OFF** (surround off).

• You cannot adjust the bass or treble when Record mode is active (see *Direct recording* on page 25).

- 1 Press SOUND.
- 2 Use the *◄* or ► buttons to select BASS or TREBLE.
- 3 Use the ▲ and ▼ buttons to adjust the sound.

You can see the current level in the display.

4 Press ENTER.

### **Using P.Bass**

In addition to the standard controls for adjusting bass and treble, this system has a P.Bass feature. Switch this on to further extend the bass.

### 💋 Note

• P.Bass has no effect when listening through headphones.

• You cannot adjust P.Bass when Record mode is active (see *Direct recording* on page 25).

- 1 Press SOUND.
- 2 Use the *◄* or **►** buttons to select P.BASS.
- 3 Use the ▲ and ▼ buttons to switch on or off.
- 4 Press ENTER.

### Using sound modes

The sound modes allow you to add various surround and room-type sound effects to your DVDs, CDs and other sources. These effects process the sound in various ways to simulate different spaces such as a theater, or concert hall.

For Dolby Surround, Dolby Digital or DTS surround sources, such as DVDs, use the Advanced Theater effects to add room ambience to the sound; for stereo-only sources, such as audio CDs, use the DSP modes.

For each effect you can also adjust how strong the effect sounds. Often, a more subtle effect level enhances the sound better than turning it right up. Experiment to see what works best for you.

### Listening to surround-sound sources

When you play DVD discs with Dolby Digital or DTS sound, choose from the following sound settings.

• **Auto** – For digital sources, decoding is automatically selected according to the source: Dolby Digital, DTS, Dolby Pro Logic, 2-channel stereo, etc. No extra effects are added to the source. Analog sources are played in the same way as the Surround Off setting.

• **Standard** – As Auto, except that 2-channel (analog or digital) sources are processed using Dolby Pro Logic for surround-sound effects.

The following six settings are Advanced Theater effects.

- **Musical** Concert hall sound.
- **Drama** Classic, mid-size movie theater sound.
- Action Large, modern movie theater sound.

### • Virtual Surround 1 (VIR.SURR.1) -

Virtual surround sound from just the main front stereo speakers and a subwoofer. Use this mode if you can't use the surround speakers.

• Virtual Surround 2 (VIR.SURR.2) -

Virtual surround sound if you have connected the surround speakers, but are using them in front of the listening position.

• **Rear Wide** – Widens the rear channel soundstage.

• **Surround Off (SUR.OFF)** – All sources are played through only the front left and right speakers, and the subwoofer. No effects are added.

### 💋 Note

• The surround modes cannot be used in combination with DSP effects or with 96kHz digital sources.

• You cannot change the surround mode when Record mode is active (see *Direct recording* on the following page).

### 1 Press SURROUND MODE.

Each press changes the surround mode as follows:

• AUTO

• **STANDARD** (surround on, with no Advanced Theater effect)

- MUSICAL
- DRAMA
- ACTION
- VIR.SURR.1
- VIR.SURR.2
- REAR WIDE
- **SUR.OFF** (surround off)

# Listening to other sources with room effects

You can add room effects to audio CDs and other stereo sources using the DSP modes. Different effects work better with different kinds of music, so don't be afraid to experiment a little.

There are seven DSP effects to choose from:

- Hall 1 Large, wood-paneled concert hall sound.
- Hall 2 Large, stone-walled concert hall sound.
- **Jazz** Live jazz club sound.
- **Dance** Nightclub sound.

• **Theater 1** – Classic, mid-size movie theater sound.

• **Theater 2** – Large, modern movie theater sound.

• **Simulated Stereo** – Virtual stereo for mono sources.

### 🖉 Note

• The DSP effects cannot be used in combination with the surround modes or with 96kHz digital sources.

• When playing stereo sources with DSP effects switched off, there is no sound from the surround and center speakers.

• You cannot change the DSP mode when Record mode is active (see *Direct recording* on the following page).

#### 1 Press DSP to select a sound mode.

Each press changes the mode as follows:

- HALL 1
- HALL 2
- JAZZ
- DANCE
- THEATER 1
- THEATER 2
- SIMULATED STEREO
- **DSP OFF** (no effects added)

### Adjusting the effect level

You can adjust the effect level when using one of the DSP effects or Advanced Theater effects. It is not possible to change the effect level of the **AUTO** or **STANDARD** surround mode (or when DSP or Surround modes are off).

### 🖉 Note

• You cannot change the effect level when Record mode is active (see *Direct recording* on the following page).

- 1 Press SOUND.
- 2 Use the *◄* or **►** buttons to select EFFECT.
- 3 Use the ▲ and ▼ buttons to adjust the effect level.

You can adjust the effect level in the range of 10 to 90.

4 Press ENTER.

#### Listening at low volume

When the volume is low, surround effects tend to become less than satisfactory. Turn the Midnight listening mode on to enjoy quality surround sound even at low volumes.

- 1 Press SOUND.
- 2 Use the *◄* or *▶* buttons to select M.NIGHT.
- 3 Use the ▲ and ▼ buttons to turn ON or OFF.
- 4 Press ENTER.

### 💋 Note

• You cannot change the Midnight mode when Record mode is active (see *Direct recording* right).

### **Direct recording**

This feature let's you record directly to an external recorder, without worrying about the various sound settings. The bass, treble, surround, DSP and Midnight settings are all bypassed so that the recording is directfrom-source.

### 💋 Note

• When the Record mode is on you cannot change or adjust the bass, treble, surround and DSP mode settings or the Midnight setting.

- Once the power is switched off or the function is changed, the Record mode automatically reverts to off.
- The LFE channel is not recorded.

#### 1 Press SOUND.

2 Use the *◄* or *▶* buttons to select RECORD MODE.

#### 3 Press ENTER.

The display shows **RECMODE ON**.

#### 4 Press ENTER again.

The Record Mode is now active.

• To switch off the Record Mode, repeat the same proceedure. In step 3 above the display shows **RECMODE OFF**.

### Introduction

• Most of the functions covered in this chapter apply to DVD discs, Video CDs and CDs, although the exact operation of some varies slightly with the kind of disc loaded.

• When playing DVD discs, if the Sa or Sa icon appears on-screen when you try and use a particular function, either the player or the disc doesn't allow the use of that function.

• When playing Video CDs, some of the functions are not available in PBC mode. You can switch PBC off by starting playback using a number button to select a track, rather than the  $\blacktriangleright/\blacksquare$  button.

### Finding what you want on a disc

#### DVD (Video CD) CD

You can directly access any point on a disc using one of the search modes. Use these search modes while a disc is playing, or when it's stopped—playback immediately starts from the point specified.

# 1 Press SEARCH (SHIFT & 3) (remote only) to choose between:

- Title search (DVD only)
- Chapter/Track search
- Time search (DVD and Video CD only)
- Off
- 2 Enter the title/chapter/track number or time (minutes & seconds).

For example, for title 4, press 4.

For chapter/track 12, press 1, 2.

For 45 minutes into the disc,

press 4, 5, 0, 0.

### 3 Press ►/II to start/restart playback.

### Switching camera angles DVD

Some DVD discs feature scenes shot from two or more angles—check the disc box for details: it should be marked with a icon if it contains multi-angle scenes. When these scenes are playing, a camera icon  $(\textcircled{P}_3)$  appears on-screen.

 To switch the camera angle, press ANGLE (SHIFT & 4).

• To hide the TV angle indicator, choose **Angle Indicator > Off** from the **Video** menu (see page 36).

### Switching subtitles DVD

Many DVD discs have subtitles in one or more languages—the disc box will usually tell you which subtitle languages are available. You can switch subtitle language anytime during playback.

- To display/switch the subtitle language, press SUBTITLE repeatedly.
- To switch off subtitles, press SUBTITLE then CLEAR.
  - To set subtitle preferences, see page 37.

### Switching audio language

When playing a DVD disc recorded with dialog in two or more languages, you can switch audio language anytime during playback.

- To display the current audio language, press AUDIO.
- To switch the audio language, press AUDIO repeatedly.
  - To set audio language preferences, see page 37.

### Switching audio channel

#### (Video CD) CD

When playing a CD or Video CD, you can switch between the stereo soundtrack, just the left channel, or just the right.

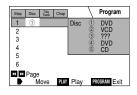
# • To switch the audio channel, press AUDIO repeatedly.

### Making a program list

#### DVD (Video CD) CD

Making a program list means telling the player which tracks, and in what order, you want played. You can program a sequence of up to 24 tracks/chapters to play from any of the discs loaded in the disc changer. The discs can be any combination of DVD, Video CD and audio CD. Chapters/tracks can appear more than once in the playlist, or can be left out entirely.

### 1 Press PROGRAM (SHIFT & 7).



The program screen appears showing the first six steps in the playlist. Navigate around this screen using the cursor buttons. Jump to the next six steps using the ►►I button; to the previous six steps using the I◄◄ button.

### 2 Enter a disc number (1 to 5).

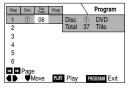
You can use either the **DISC1–5** buttons, or the number buttons.

• If this is the first step you're programming, the number of the disc that is currently in the play position will appear automatically.

• If the unit has already read the contents of the disc you want to program, the disc details appear in the box on the right of the screen (type of disc, number of titles/ chapters/tracks, etc.). If the unit hasn't yet read the disc then '? ? ?' appears in the box for disc type.

• If you want to put the whole disc into the program list, jump to step 5 below.

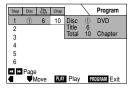
3 Move the cursor to the TITLE/TRACK field and enter a title or track number.



For DVDs, this number will be a disc title; for Video CDs and audio CDs, a track number.

For example, to enter title/track 6, press **6**. To enter title/track 14, press **1**, **4**.

- To clear an entry, press **CLEAR**.
- DVD only: If you want to put the whole title into the program list, jump to step 5 below.
- 4 If the current disc is a DVD, move the cursor to the CHAPTER field and enter a chapter number.



### 5 Press ENTER.

The cursor moves down to the disc number field in the next step.

6 Repeat steps 2-5 to add more items to the program list.

# 7 Press ►/II to start the program list playing.

### 🚺 Тір

• To edit any item in the program list, position the cursor on the item you want to change, then enter a new value using the number buttons.

• To delete a whole step, position the cursor anywhere on the step you want to delete and press **CLEAR**.

### 💋 Note

• The playlist remains active even if you open the disc tray and change discs. If a step in the program list cannot be played (because the track number is too high, for example), that step is automatically skipped.

• To delete the playlist, stop playback, then press **CLEAR**.

• You may see an asterisk (\*) appear on-screen when program play of some DVD discs starts. The asterisk means that the part of the disc being played is not in the playlist, but has to be played whenever the disc is first loaded in to the play position. The asterisk will disappear once the programmed chapters start playing.

### More programming options

There are several other options available when making/ using program lists.

- To view the playlist, press PROGRAM (SHIFT & 7).
- To delete an entry from the playlist, position the cursor on the title/chapter/ track number and press CLEAR.
- To add an entry to the end of the playlist, press PROGRAM (SHIFT & 7), enter the title/chapter/track number, then press program again.
- To delete the playlist, exit the program list screen, stop playback, then press CLEAR.

### Using random play

Use the random play function to play titles/chapters/ tracks in a random order.

How random play works depends on the disc currently in the play position. If the 'current' disc is a DVD, you can play either the titles or chapters on that disc at random. If the 'current' disc is an audio or Video CD, you can play either the tracks on that disc, or all the tracks on all the CDs and Video CDs loaded at random (DVD discs loaded will be ignored).

### 1 Press RANDOM (SHIFT & 8) repeatedly to select a random play mode.

The mode is displayed on-screen and in the front panel display:

DVD

• **Random Chapter** (from within the current title)

Random Title

(Video CD) CD

- Random 1 Disc
- Random All Discs

### 2 Press ENTER or ►/II to start random play.

• To stop the disc and cancel random playback, press  $\blacksquare$ .

• To cancel random playback without stopping playback, press **CLEAR**. The rest of the disc plays out.

### 🛟 Тір

During random play, the I◀◀ and ►►I buttons function a little differently to normal: I◀◀ returns to the beginning of the current track/chapter. You can't go back further than this. ►►I selects another track/ chapter at random from those remaining.

### Using repeat play

You can set the player to repeat individual tracks on CDs or Video-CDs, chapters or titles on DVD discs, a whole disc, or all the discs loaded in the player. It's also possible to loop a section of a disc.

You can use the repeat together with the programming mode to repeat the tracks/chapters in the playlist (see page 27 for how to program a playlist).

1 Press REPEAT (SHIFT & 9) during playback to select a repeat mode.

Each press switches the repeat mode:

DVD

- Chapter Repeat
- Title Repeat
- Repeat Off

#### (Video CD) CD

- Track Repeat
- 1 Disc Repeat
- All Discs Repeat
- Repeat off

• The **Repeat All** function repeats all tracks on all audio and Video CDs loaded. If, during repeat play, the unit encounters a DVD disc, it will start playing, but the repeat mode will be canceled.

### 2 To resume normal playback, press CLEAR.

### 🚺 Тір

You can use repeat play with program play and random play. During program/random play, press **REPEAT** (SHIFT & 9).

### Looping a section of a disc

• Press REP A-B (SHIFT & 10/0) once at the start of the section you want to repeat, then again at the end.

Playback immediately jumps back to the start point and plays the loop repeatedly.

• On a DVD disc, the start and end points of the loop must be in the same title.

- To resume normal playback, press CLEAR.
- To repeat a section of a disc just once, press REP A-B (SHIFT & 10/0) at the start of the section, then ►/II at the end. Playback jumps back to the start point.

### Playing CDs only (CD Mode) CD

Using this feature you can play only the CDs loaded in the disc tray—automatically skipping over any DVDs or Video CDs loaded. This may be useful if you have a mixture of discs loaded but only want to play music: you don't have to keep track of what kind of disc is where in the disc tray.

### 1 Press CD MODE.

The CD Mode indicator lights.

• To switch off, press **CD MODE** again.

### 2 Press ►/II.

The player automatically starts playing the first CD loaded. Once all the CDs loaded have played, the player automatically stops.

### 🊺 Tip

• In CD Mode, use the **DISC SKIP** button to rotate the disc tray to the next CD loaded (if there is one).

• You can use repeat and random play in CD Mode (see page 28 and this page).

### 💋 Note

• You can't switch on CD mode while playing a DVD or Video CD. Stop playback first.

• Program play is not possible in CD Mode. However, it is possible to program a playlist. When you start program play, CD Mode is canceled (see page 27).

### Bookmarking a place in a disc

#### DVD (Video CD)

If you watch only part of a DVD disc with the intention of picking up later where you left off, you can bookmark the place then resume playback at a later date without having to manually search for the right place.

You can use this feature for up to five discs (after that the oldest bookmark is deleted to make space for a new one).

 At the point from which you want to resume playback next time, press LAST MEMO (SHIFT & 2).

Press ■ if you want to stop playback here.

# • To resume playback, load the disc and press LAST MEMO (SHIFT & 2).

If the disc starts auto playback, stop it first.

• To clear the bookmark for the disc loaded, press LAST MEMO (SHIFT & 2) then CLEAR while Last Memory is displayed on-screen.

### 🖉 Note

• Bookmarking also works with Video CD, but for one disc only, and you must leave the disc in the player— opening the disc tray erases the memory. Last Memory may not work reliably with some PBC Video CDs.

### Memorizing disc settings

DVD

If you have a particular set of preferences for a disc, you can memorize them using the Condition Memory function. Once memorized, your settings will be recalled automatically whenever you load that disc. The player can store settings for 15 discs; after this, memorizing another replaces the oldest one stored.

The settings memorized are:

- **OSD Position** (page 36)
- Subtitle Language (page 37)
- Audio Language (page 37)
- Angle Indicator (page 36)
- Parental Lock level (page 39)
- To memorize settings for the current disc, press CONDITION (SHIFT & 1) during playback.
- To recall memorized settings, just load the disc.

The display shows **CONDITION** and **Condition Memory** appears on-screen.

• To clear memorized settings, load the disc and press **CLEAR** while **Condition Memory** is displayed on-screen.

### **Displaying disc information**

DVD (Video CD) CD

Various track, chapter and title information, as well as the video transmission rate for DVD discs, can be displayed on-screen while a disc is playing, or while it's stopped.

 To show/switch the information displayed, press DVD DISP (SHIFT & CLEAR).

• When a disc is playing, the information appears at the top of the screen. Keep pressing **DVD DISP (SHIFT & CLEAR)** to change the displayed information.

Play 0:37–1 0.38 Tr. Rate : ###### 7.2 DVD data transmission rate display • When a disc is stopped, all title/chapter, or track information for the disc loaded appears on-screen. Press **DVD DISP(SHIFT & CLEAR)** again to exit the screen.

Information: DVD			
Title	Chapter	Title	Chapter
01	1~ 30	06	1~ 10
02	1~ 21	07	1~ 13
03	1~ 46	08	1~ 5
04	1~ 12	09	1~ 4
05	1~ 8		
	1/1		DISPLAY Exit

DVD-Video

Information: Compact Disc				
Total Tir	ne	6.30		
Track	Time			
01	3.32			
02	2.58			
1/1		DISPLAY Exit		
	<b>C</b> D			

CD/Video CD

• To display the time remaining on a DVD disc, press and hold **DVD DISP (SHIFT & CLEAR)**.

The display shows the disc time remaining for as long as you hold the button. Release the button to revert to the previous display.

### Using the wake up timer

You can use the timer as an alarm clock to wake up to the sound of a disc loaded or the radio. If you have an external component operated by a separate timer, you can also set it as the source function.

Once the timer is active, it will switch the system on everyday at the set time.

Unlike an ordinary alarm clock, you need to set a system switch off time, as well as a switch on time.

1 Select the source that you'd like to wake up to.

For a disc, press **DVD/CD**; for the radio press **TUNER/BAND**; for an external component, press **TV/AUX**.

2 Load a disc or tune to a radio station, then set the volume.

If you selected an external component, make the appropriate timer settings for it.

- 3 Press SYSTEM SETUP.
- 4 Press *◄* or ► until you see TIMER in the display.
- 5 Press ENTER.

#### 7 Press ENTER.

The display shows a switch on time with the hour blinking.

#### 8 Set the switch on time.

Use  $\blacktriangle$  and  $\blacktriangledown$  to set the hour then press **ENTER**. Set the minute in the same way, pressing **ENTER** to finish.

• If you make a mistake, press **SYSTEM SETUP** and start again from step 3.

#### 9 Set the switch off time.

Set in the same way as the switch on time, pressing **ENTER** to finish.

• If you make a mistake, press **SYSTEM SETUP** and start again from step 3.

#### 10 Check the settings you just made.

The display should indicate that you have set the wake up timer, then show the on time, the off time, the function (DVD, etc.), and the volume. The display shows **CHECK END** after all the settings.

• There is no direct way to edit the timer settings. If you see that some timer setting is not what you'd intended, you'll need to start the process again from the top.

#### 11 Switch the system into standby.

The timer will not work if the system is left on! The timer indicator ( O ) lights when the timer is on.

# Activating/deactivating the wake up timer

To activate the wake up timer, set the timer to **ON**. To deactivate it, set the timer to **OFF**.

- 1 Press SYSTEM SETUP.
- 3 Press ENTER.
- 4 Press the ◄ or ► button until you see TIMER ON or TIMER OFF in the display.
- **5 Press ENTER.** The timer indicator ( <sup>(D)</sup>) lights when the timer is on.

### Checking the timer settings

If you've set the wake-up timer, you can check the settings anytime.

- 1 Press SYSTEM SETUP.
- 3 Press ENTER.
- 4 Press the ◀ or ► button until you see TIMER CHECK in the display.

#### 5 Press ENTER.

The display shows the timer settings:

- On time
- Off time
- Function (DVD, etc.)
- Volume

### Using the sleep timer

The sleep timer switches the system into standby after a specified amount of time so that you can fall asleep without worrying about the stereo being left on all night. If you've also set the wake up timer this is important since the wake up timer will only work if the system is in standby.

# 1 Press SLEEP (SHIFT & 6) to set the time until the system goes into standby.

Press repeatedly to switch between:

• **SLEEP AUTO** – this setting is only available when the system is playing a CD\*

- SLEEP 90 (minutes)
- SLEEP 60 (minutes)
- SLEEP 30 (minutes)
- **SLEEP OFF** (cancels the sleep timer)

The sleep timer indicator  $(\clubsuit)$  lights and the display dims when the sleep timer is active.

\* This is not available when a Video CD is in PBC mode, or if you're playing a CD or Video CD in repeat mode. If you set a disc playing in repeat mode after setting the sleep timer to **SLEEP AUTO**, it automatically switches to the 90 minute setting.

- Once the sleep timer is set, you can check the time left by pressing **SLEEP (SHIFT & 6)**.
- To cancel the sleep timer, switch the system into standby, or select **SLEEP OFF** (as described above).

• If you switch to a different source when sleep auto is set, the system will automatically go into standby a minute later.

### Advanced sound settings

This chapter covers advanced settings to further optimize the sound of your system.

### LFE attenuator

The LFE (low frequency effects) channel carries ultra low bass sound to add weight to effects in Dolby Digital and DTS soundtracks. This channel can overload the subwoofer resulting in distortion. Use the LFE attenuator setting to reduce the signal fed to the subwoofer.

### Note

The LFE attenuator only works with sources that contain an LFE channel. It is not a general level control for the sub-woofer.

• You can't change this setting if the Record mode is on (see page 25).

#### 1 Press SYSTEM SETUP.

- 2 Press the ◄ or ► button until you see LFE in the display.
- 3 Use the ▲ and ▼ buttons to set the amount of signal reduction.

There are three settings:

- LFE ATT 0 default setting (no signal reduction)
- **LFE ATT 10** the LFE channel signal level is reduced to avoid distortion

• LFE OFF — the LFE channel is switched off completely. This may be useful late at night, for example.

4 Press ENTER.

### **Dynamic Range Control**

The dynamic range of a source is the difference between the quietest and the loudest sounds. The dynamic range of Dolby Digital soundtracks can be very great. This makes them exciting, but it also means that when you turn the volume down you can easily lose quiet dialog. Switch on Dynamic Range Control to even out the soundtrack volume.

• You can't change this setting if the Record mode is on (see page 25).

#### 1 Press SYSTEM SETUP.

Press the ◄ or ► button until you see
 D.R.C. in the display.

# 3 Use the ▲ and ▼ buttons to select a dynamic range setting.

• **D.R.C. OFF** – default setting (no change to the dynamics)

- **D.R.C. LOW** the dynamic range is reduced by a small amount.
- **D.R.C. MID** mid setting

• **D.R.C. HIGH** – the dynamic range is reduced by a large amount (good for listening at very low volume).

4 Press ENTER.

#### **Dual-mono setting**

The dual-mono setting applies only to Dolby Digital discs that feature dual-mono material—see the disc box for details.

Dual-mono discs are recorded with two independent channels that may be played together or separately depending on the situation. For example, a guitar tuition disc might have the guitar recorded on one channel and all the other instruments on the other. Use the dual-mono setting to play just the guitar part on its own; just the backing, or everything together (through separate speakers, or mixed).

• You can't change this setting if the Record mode is on (see page 25).

#### 1 Press SYSTEM SETUP.

- 2 Press the ◄ or ► button until you see CH or MIX in the display.
- 3 Use the ▲ and ▼ buttons to select a dualmono setting.
  - L-CH1 R-CH2 default setting (Ch1 is played through the left speaker; Ch2 through the right)
  - **CH1** Ch1 is played through the center speaker (or through the left and right speakers if **Surround Off** is selected); Ch2 is muted.

• **CH2** – Ch2 is played through the center speaker (or through the left and right speakers if **Surround Off** is selected); Ch1 is muted.

• **MIX** – Ch1 and Ch2 are mixed together and played through the center speaker (or through both left and right speakers if **Surround Off** is selected).

4 Press ENTER.

### Adjusting channel volume levels

Depending on your room and where you're sitting, you may want to adjust the relative volumes of one or more speakers for a more balanced sound. You can do this in any mode, including the surround, DSP, and stereo modes. Settings that you make in any sound mode are completely independent and don't affect any other mode.

### 🖉 Note

• Each DSP effect has its own set of channel level settings.

- The channel levels you set for the Surround mode apply to Standard and all Advanced Theater effects.
- The headphone level is not affected by the channel level settings.

#### 1 Press CH LEVEL.

Adjustments to the channel volume levels will affect only the current sound mode.

# 2 Use the *◄* and ► buttons to select a channel to adjust.

The display shows the channel and its current setting.

• Remember that not all channels are available in all sound modes.

# 3 Use the ▲ and ▼ buttons to adjust the volume of the current channel.

For best results, sit in your main listening position when doing this. You can adjust each speaker in the range of +/-10dB.

#### 4 When you're done, press ENTER.

### **DVD Setup Menu**

### Using the DVD Setup menu



The DVD Setup menu gives you access to all the system's DVD settings. Press **DVD SETUP** to display/leave the menu and the cursor (◄▲▼►) and **ENTER** buttons on the remote to navigate and select options. In some screens you can press **RETURN** to leave the screen without making any changes. The controls for each menu are shown at the bottom of the screen.

If an option is greyed out it means that it cannot be changed at the current time. This is usually because a disc is playing. Stop the disc, then change the setting.

The current setting for any option is marked with a colored box. The color of the box indicates what kind of disc the setting is applicable to: blue for DVD only; yellow for DVD and Video CD; green for any type of disc.

### **Video settings**

#### **TV Screen**

• Set in Setup Navigator (Default: 16:9 (Wide))



If you have a widescreen TV, select the **16:9 (Wide)** setting—widescreen DVD software is then shown using the full screen area. When playing software recorded in conventional (4:3) format, the settings on your TV will determine how the material is presented—see the manual that came with your TV for details on what options are available.

If you have a conventional TV, choose either 4:3

**(Letter Box)** or **4:3 (Pan & Scan)**. In Letter Box mode, widescreen software is shown with black bars at the top and bottom of the screen. Pan & Scan chops the sides off widescreen material to make it fit the 4:3 screen (so even though the picture looks larger on the screen, you're actually seeing less of the movie). See page 46 for more information.

### **Picture Quality**

• Default setting: Standard



There are three preset picture quality settings that suit various program types.

**Cinema** – Sharp, high contrast picture.

**Animation** – Bright, vibrant colors.

Standard – Neutral picture.

### S-Video Out Expert

• Default setting: **S2** 

Video	Language	General		
F	TV Screen – 16:9(Wide) Picture Quality – Standard			
	S-Video Out IS1			
Still Picture – S2				
	On Screen Display – Position Normal Angle Indicator – On			
	Move		SETUP Exit	

You can switch the type of S-Video signal output. If you connected your TV with an S-Video cord in some rare cases the TV picture may appear stretched. If you find this switch the S-Video output from S2 to S1.

### Still Picture Expert

• Default setting: Auto



The player uses one of two processes when displaying a still frame from a DVD disc. The default Auto setting lets the system decide which to use.

Field – produces a stable, generally shake-free image.

**Frame** – produces a sharper image, but more prone to shake than field stills.

### On Screen Display Expert

• Default setting: **Position – Normal** 



When watching DVD discs recorded in 4:3 format ('regular' TV size) on a widescreen TV, it can be difficult to see the operation displays (**Play**, **Stop**, **Resume**, etc.) at the top of the screen. If you find them hard to read, select **Position – Wide**.

If you prefer not to have the operation displays shown on-screen, change the setting to **Off**.

### Angle Indicator Expert

• Default setting: **On** 



If you prefer not to see the camera icon on-screen during multi-angle scenes on DVD discs, change the Angle Indicator setting to **Off**.

### Language settings

### **OSD** Language

• Set in Setup Navigator (default: English)



Choose the language you want the OSDs in.

### Audio Language

• Default Setting: English

Video Language General	
OSD Language — English	
Audio Language - English	
Subtitle Language - French	
Auto Language - Spanish	
] Other	
<ol> <li>Setup audio language</li> </ol>	
■ Move SETUP Exit	

This setting is your preferred audio language for DVD discs. If the language you specify here is recorded on a disc, the system automatically plays the disc in that language (although this depends on the *Auto Language* setting—see *Auto Language* on page 37).



The DVD format recognizes 136 different languages. Choose **Other** if you want to specify a language other than those listed, then follow the on-screen display to select a language. You may also want to refer to the *Language code list* on page 43.



### Remember

You can switch between the languages recorded on a DVD disc any time during playback using the **AUDIO** button. (This does not affect this setting.)

### Subtitle Language

Default Setting: English



This setting is your preferred subtitle language for DVD discs. If the language you specify here is recorded on a

disc, the system automatically plays the disc with those subtitles (although this depends on the *Auto Language* setting—see *Auto Language* on page 37).

Video Lan	guage Gen	eral	
Subtitle I	anguage		
List of L	anguages	Code (	0~2)
ja: Japa	nese	10	0 1
(i) Setup di	sc's subtitle l		_
Move			Return
▲♥+/-	ENTER	Select SHU	Exit

The DVD format recognizes 136 different languages. Choose **Other** if you want to specify a language other than those listed, then follow the on-screen display to select a language. You may also want to refer to the *Language code list* on page 43.

### Remember

You can change or switch off the subtitles on a DVD disc any time during playback using the **SUBTITLE** button. (This does not affect this setting.)

### Auto Language

• Default Setting: **On** 



When set to **On**, the system always selects the default audio language on a DVD disc (French dialog for a French movie, for example), and displays subtitles in your preferred subtitle language only if that is set to something different. In other words, movies in your native language won't have any subtitles, while foreign language movies will be shown with subtitles.

Set to **Off** to have the system play discs strictly according to your *Audio Language* and *Subtitle Language* settings.

For Auto Language to work, the *Audio Language* and *Subtitle Language* settings must be the same—see page 36 and this page.



You can still switch audio and subtitle languages on playback using the **AUDIO** and **SUBTITLE** buttons.

### DVD Language Expert

Default Setting: w/Subtitle Language



Some multi-lingual discs have disc menus in several languages. This setting specifies in which language the disc menus should appear. Leave on the default setting for menus to appear in the same language as your *Subtitle Language*—see page 37.



The DVD format recognizes 136 different languages. Choose **Other** if you want to specify a language other than those listed, then follow the on-screen display to select a language. You may also want to refer to the *Language code list* on page 43.

### Subtitle Display Expert

Default Setting: On

Video	Language	General		
	SD Langua			
	dio Langua itle Langua			
	uto Langua		•	
	VD Langua ubtitle Disp			
			sist Subtitle	
	Move		SETUP Exit	

Set to **On**, the player displays subtitles according to the *Subtitle Language* and *Auto Language* settings above. Set to **Off** to switch subtitles off altogether (although see *Subtitle Off* on this page for special cases). Set to **Assist Subtitle** to have the player display the extra assistive subtitles recorded on to some DVD discs.

### Subtitle Off Expert

• Default Setting: Selected Subtitle



Some discs display subtitles even if the *Subtitle Display* setting (this page) is set to off. In this case, you can either have the subtitles displayed in the same language as your preferred audio language (**With Audio**), or in your preferred subtitle language (**Selected Subtitle**). If the *Audio Language* and *Subtitle Language* settings are the same then both of these choices will give the same result.

### **General settings**

### Setup Menu Mode

• Default setting: Basic

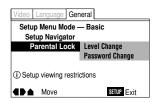


The **Basic** setup menu gives you access to the more commonly used settings. It also features an information bar which tells you more about what the currently highlighted option means.

Set to **Expert** for access to all settings.

### Parental Lock

- Default level: 8
- Default password: none



You can restrict access to certain discs using this feature. Once set, the player will ask for a four-digit password if a restricted disc is loaded, giving you a degree of control over what your children watch.

The player can be set to one of eight levels. Setting the level at 1 means that any disc with any level of restriction will need the password in order to watch it, while setting it at level 8 gives unlimited access.

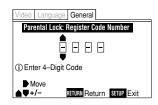
DVD discs are also rated from 1 to 8. Discs rated 1 (or with no rating) generally contain little or no offensive material; discs rated 2, may contain material that some parents may feel is unsuitable for children. Discs rated 8 will almost certainly be unsuitable for children.

Since a disc's rating is up to the manufacturer, it is not possible to give a definitive guide to each level—check the disc box for parental lock details.

### 💋 Note

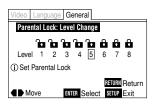
Not all discs that you may consider inappropriate for your children are rated. Unrated discs will always play without requiring the password first. Changing the parental lock level

- 1 Select Level Change.
- 2 Use number buttons to register a new password or confirm your existing password, then press ENTER.



The first time you set the parental lock level, you have to register a password. Anything you input becomes your password.

#### 3 Select a new level.

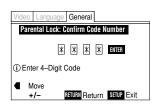


Move leftward to lock more levels (more discs will require the password); rightward to unlock levels. You can't lock level 1.

#### 4 Press ENTER to set the new level.

### Changing your password

- 1 Select Password Change.
- 2 Input your existing password, then press ENTER.



3 Input a new password, then press ENTER.

Video Language General
Parental Lock: Password Change
(j) Enter 4–Digit Code
Move ▲♥+/- RETURN Return SETUP Exit

If you forget your password, resetting the player will clear the password. See page 45 for more on this.

#### Screen Saver Expert

• Default setting: **Off** 

Video Language Gen	ieral		
	Setup Menu Mode — Expert		
Setup Navigator Parental Lock –	– Level 8		
Screen Saver Background Color –			
Background Color -	υ <b>Ο</b> Π		
■ Move	SETUP Exit		

If a constant image is displayed on a conventional CRTtype TV, it can "burn in" leaving a ghost image on the screen. When **On**, the screen saver makes sure that a constant image is not displayed for a dangerously long time.

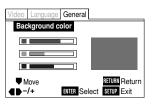
### Background Color Expert

• Default setting: Blue

Video Language General		
Setup Menu Mode — Expert		
Setup Navigator		
Parental Lock — Level 8 Screen Saver — Off		
Background Color Black		
Blue		
Other		
Move SETUP Exit		

This specifies the color of the screen when the player is stopped (or playing an audio disc).

Select **Other** if you want to make your own background color. Follow the on-screen display to create a color from the red, green and blue bars.



### Switching the AM frequency interval

As its default setting, the tuner jumps in steps of 10kHz when tuning in AM stations. If you find that this is unsuitable in your area (if you can't tune into stations successfully), you can change the tuning interval to 9kHz for AM. Here's how to switch the setting.

- 1 Switch the system into standby.
- 2 Press SYSTEM SETUP.
- 3 Press the ◄ or ► button until you see AM STEP in the display.
- 4 Use the ▲ and ▼ buttons to select 9kHz or 10kHz.

• When set to 9kHz, the FM tuning interval becomes 50kHz. This should not affect tuning into FM stations.

5 Press ENTER.

### Setting the display brightness

You can adjust the brightness of the display to suit the lighting conditions of the room.

# Press FL DIMMER (SHIFT & >10). Press repeatedly to set the display brightness. There are

five levels.

### Switching the time format

You can display the clock in either 12 or 24-hour format.

- 1 Switch the system into standby.
- 2 Press SYSTEM SETUP.
- 3 Press the ◄ or ► button until you see CLOCK 12 HR or CLOCK 24 HR in the display.
- 4 Use the ▲ and ▼ buttons to select 12 or 24.
- 5 Press ENTER.

### Taking care of your system

To clean this unit, wipe with a soft, dry cloth. For stubborn dirt, wet a soft cloth with a mild detergent solution made by diluting one part detergent to 5 or 6 parts water, wring well, then wipe off the dirt. Use a dry cloth to wipe the surface dry. Do not use volatile liquids such as benzene and thinner which may damage the surfaces.

#### **Disc lens cleaner**

The disc pickup lens should not become dirty in normal use, but if for some reason it should malfunction due to dirt or dust, consult your nearest Pioneer authorized service center. Although lens cleaners for CD players are commercially available, we do not recommend using them since some may damage the lens.

### Taking care of your discs

When holding discs, take care not to leave fingerprints, dirt or scratches on the disc surface. Hold the disc by its edge or by the center hole and edge. Damaged or dirty discs can affect playback performance. Take care also not to scratch the label side of the disc. Although not as fragile as the recorded side, scratches can still result in a disc becoming unusable.

Should a disc become marked with fingerprints, dust, etc., clean using a soft, dry cloth, wiping the disc lightly from the center to the outside edge as shown on the next page. If necessary, use a cloth soaked in alcohol, or a commercially available CD or DVD cleaning kit to clean a disc more thoroughly. Never use benzine, thinner or other cleaning agents, including products designed for cleaning vinyl records.

• Wipe lightly from the center of the disc using straight strokes.



• Don't wipe the disc surface using circular strokes.

#### Storing discs

Although CDs and DVDs are more durable than vinyl records, you should still take care to handle and store discs correctly. When you're not using a disc, return it to its case and store upright. Avoid leaving discs in excessively cold, humid, or hot environments (including under direct sunlight).

Don't glue paper or put stickers on discs, or write on them using a pencil, ball-point pen or other sharptipped writing instrument.

### Discs to avoid

Discs spin at high speed during playback. If you can see that a disc is cracked, chipped, warped, or otherwise damaged, don't risk using it—you could end up damaging the system.



This system is designed for use with conventional, fully circular discs only. Use of shaped discs is not recommended. Pioneer disclaims all liability arising in connection with the use of shaped CDs and DVDs.

### Glossary

#### Aspect ratio

The width of a TV screen relative to its height. Conventional TVs are 4:3 (in other words, the screen is almost square); widescreen models are 16:9 (the screen is almost twice as wide as it is high).

#### Chapter

Just as a book is split up into several chapters, a title on a DVD disc is usually divided into chapters. See also Title.

### **Dolby Digital**

A surround sound system developed by Dolby Laboratories containing up to six channels of digital audio (front left and right, surround left and right, center and low-frequency channels). See also DTS.

#### DTS

A surround sound system developed by Digital Theater Systems as an alternative to Dolby Digital. DTS discs contain up to eight channels of digital audio. See also Dolby Digital.

#### **MPEG video**

The video format used for Video CDs and DVDs. Video CD uses the older MPEG-1 standard, while DVD uses the newer and much better quality MPEG-2 standard.

### PBC (PlayBack Control) (Video CD only)

A system of navigating a Video CD through on-screen menus recorded onto the disc. Especially good for discs that you would normally not watch from beginning to end all at once—karaoke discs, for example.

#### Regions (DVD only)

These associate discs and players with particular areas of the world. This unit will only play discs that have compatible region codes. You can find the region code of your unit by looking on the rear panel. Some discs are compatible with more than one region (or all regions).

#### Title (DVD only)

A collection of chapters on a DVD disc. See also Chapter.

## Language code list

Language/Langue	Code
Japanese/japonais ( ja )	1001
English/anglais ( en )	0514
French ( fr)	0618
German ( de )	0405
Italian ( it )	0920
Spanish ( es )	0519
Dutch ( nl )	1412
Russian ( ru )	1821
Chinese ( zh )	2608
Korean ( ko )	1115
Greek ( el )	0512
Afar ( aa )	0101
Abkhazian ( ab )	0102
Afrikaans ( af )	0106
Amharic ( am )	0113
Arabic ( ar )	0118
Assamese ( as )	0119
Aymara ( ay )	0125
Azerbaijani ( az )	0126
Bashkir ( ba )	0201
Byelorussian ( be )	0205
Bulgarian ( bg )	0207
Bihari ( bh )	0208
Bislama ( bi )	0209
Bengali ( bn )	0214
Tibetan ( bo )	0215
Breton ( br )	0218
Catalan ( ca )	0301
Corsican ( co )	0315
Czech ( cs )	0319
Welsh ( cy )	0325
Danish ( da )	0401
Bhutani ( dz )	0426
Esperanto ( eo )	0515
Estonian ( et )	0520
Basque ( eu )	0521
Persian ( fa )	0601
Finnish ( fi )	0609
Fiji ( fj )	0610
Faroese ( fo )	0615
Frisian ( fy )	0625
Irish ( ga )	0701
Scots-Gaelic ( gd )	0704
Galician ( gl )	0712
Guarani ( gn )	0714
Gujarati ( gu )	0721

Language/Langue	Code
Hausa ( ha )	0801
Hindi ( hi )	0809
Croatian (hr )	0818
Hungarian ( hu )	0821
Armenian ( hy )	0825
Interlingua ( ia )	0901
Interlingue ( ie )	0905
Inupiak ( ik )	0911
Indonesian ( in )	0914
Icelandic ( is )	0919
Hebrew ( iw )	0923
Yiddish ( ji )	1009
Javanese ( jw )	1023
Georgian ( ka )	1101
Kazakh ( kk )	1111
Greenlandic ( kl )	1112
Cambodian ( km )	1113
Kannada ( kn )	1114
Kashmiri ( ks )	1119
Kurdish ( ku )	1121
Kirghiz ( ky )	1125
Latin ( la )	1201
Lingala (ln )	1214
Laothian ( lo )	1215
Lithuanian ( lt )	1220
Latvian ( lv )	1222
Malagasy ( mg )	1307
Maori ( mi )	1309
Macedonian ( mk )	1311
Malayalam ( ml )	1312
Mongolian ( mn )	1314
Moldavian ( mo )	1315
Marathi ( mr )	1318
Malay ( ms )	1319
Maltese ( mt )	1320
Burmese ( my )	1325
Nauru ( na )	1401
Nepali ( ne )	1405
Norwegian ( no )	1415
Occitan ( oc )	1503
Oromo ( om )	1513
Oriya ( or )	1518
Panjabi ( pa )	1601
Polish ( pl )	1612
Pashto, Pushto ( ps )	1619
Portuguese ( pt )	1619
· · · · · · · · · · · · · · · · · · ·	1020

Language/Langue Quechua ( qu )	Code 1721
Rhaeto-Romance ( rm )	1813
	1814
Kirundi ( rn )	
Romanian ( ro )	1815
Kinyarwanda ( rw )	1823
Sanskrit ( sa )	1901
Sindhi ( sd )	1904
Sangho ( sg )	1907
Serbo-Croatian ( sh )	1908
Singhalese ( si )	1909
Slovak ( sk )	1911
Slovenian ( sl )	1912
Samoan ( sm )	1913
Shona ( sn )	1914
Somali ( so )	1915
Albanian ( sq )	1917
Serbian ( sr )	1918
Siswati ( ss )	1919
Sesotho ( st )	1920
Sundanese ( su )	1921
Swedish ( sv )	1922
Swahili ( sw )	1923
Tamil ( ta )	2001
Telugu ( te )	2005
Tajik ( tg )	2007
Thai ( th )	2008
Tigrinya ( ti )	2009
Turkmen ( tk )	2011
Tagalog ( tl )	2012
Setswana ( tn )	2014
Tonga ( to )	2015
Turkish ( tr )	2018
Tsonga ( ts )	2019
Tatar ( tt )	2020
Twi ( tw )	2023
Ukrainian ( uk )	2111
Urdu ( ur )	2118
Uzbek ( uz )	2126
Vietnamese ( vi )	2209
Volapük ( vo )	2215
Wolof ( wo )	2315
Xhosa ( xh )	2408
Yoruba ( yo )	2515
Zulu ( zu )	2621

### Troubleshooting

Incorrect operation is often mistaken for trouble or malfunction. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Inspect the other components and electrical appliances being used. If the trouble cannot be rectified after checking the items below, ask your nearest Pioneer authorized service center or your dealer to carry out repair work.

Problem	Remedy
CDs, DVDs and Video CDs	
The disc is ejected automati- cally after loading.	<ul> <li>Check that the disc is clean and undamaged (page 41, 42).</li> <li>Make sure that the disc is seated properly in the disc guide.</li> <li>Check that the disc has a compatible region number (page 8).</li> <li>There may be condensation inside the unit. Allow time for condensation to evaporate. Avoid using the player near an air-conditioning unit.</li> </ul>
Playback is not possible.	Check that the disc is loaded correctly (label side face up).
Samark appears on screen.	• The operation is prohibited by the system.
Some mark appears on screen.	The selected function does not operate for that disc.
When making changes in the Setup OSD menus, 💯 is displayed.	• There is a CD or Video CD loaded and the setting that was changed applies only to DVD discs. The settings will take effect next time a DVD is loaded.
Picture playback stops and the operation buttons cannot be used.	• Switch the power off once, then on again using the front panel standby/on switch.
New settings made in the Setup screen menus while a disc is playing are ineffective.	• Some settings can be changed while a disc is playing, but are not effective until the disc is stopped then restarted. This is not a malfunction. Note that making settings in the Setup screen menus may cancel the resume function.
Settings are canceled.	• If the power was cut due to power failure or by unplugging the power cord, settings will be canceled.
No picture/No color.	<ul> <li>Check that the video connections are correct and that plugs are inserted fully.</li> <li>Check that the TV/monitor settings are correct.</li> </ul>
Screen is stretched or aspect does not change.	• Make sure that the TV Screen option in the Setup menu matches the TV/monitor you're using.
Picture disturbance during playback or screen is dark.	<ul> <li>This player is compatible with Macro-Vision System copy guard. Some discs include a copy prevention signal, and when this type of disc is played back, stripes etc., may appear on some sections of the picture depending on the TV. This is not a malfunction.</li> <li>Problems with some discs may result in the screen becoming black for a brief instant or shaking slightly when certain functions are executed.</li> <li>Due to copy protection, connection of this system through a VCR or an AV selector may prevent recording or cause picture problems. This is not a malfunction.</li> </ul>

Problem	Remedy	
Noticeable difference in DVD and CD volume.	· · · · · · · · · · · · · · · · · · ·	
Tuner		
Noisy radio reception	<ul> <li>Check that the frequency is correct.</li> <li>Check that the antennas are connected properly. For FM, make sure that the antennas is fully extended and positioned to give the best reception.</li> <li>For AM, make sure that the loop antenna is pointing in the best direction.</li> <li>If the radio signal is weak, an outdoor antenna will usually give better results than the supplied indoor types.</li> <li>Other electrical equipment, such as TVs, fluorescent lamps and motors can cause interference. Try switching off or moving the equipment, or moving the antenna(s).</li> <li>The tuning interval may be incorrect for your country or region. Try switching the tuning interval (page 41).</li> </ul>	
Auto tuning does not pick up some stations.	• Auto tuning will only detect radio stations with a good signal. For more sensitive tuning, connect an outdoor antenna.	
General		
The remote control doesn't seem to work.	<ul> <li>Make sure that you're using the remote within its operating range and that there are no obstacles between the remote and the sensor on the main unit.</li> <li>Check that the batteries are not exhausted.</li> </ul>	
No audio, or audio is dis- torted.	<ul> <li>Check that the correct function is selected (DVD/CD, etc.), the volume turned up.</li> <li>Check that the MUTE function is not on and that the disc is not paused.</li> <li>Check that the disc is clean and undamaged (page 41-42).</li> <li>Check that all rear panel connections are correct.</li> <li>If you find dirty or oxidized plugs/terminals, clean them.</li> </ul>	
Can't adjust sound mode settings (bass, treble, etc.)	• The Record Mode is switched on. Switch off then adjust as desired (see page 25).	

### Note

Static electricity or other external influences may cause malfunctioning of this unit. In this case, unplug the power cord and then plug back in. This will usually reset the unit for proper operation. If this does not correct the problem, please consult your nearest Pioneer service center.

### Resetting the system

Resetting the system returns all menu, picture and password settings to their factory defaults.

- 1 Switch the system into standby using the front panel standby/on switch.
- 2 Hold down the front panel button and switch back on.

### Switching the demo mode on/off

When you first plug in this system the display shows a demo sequence. The demo will also start if the system is on in the DVD function but idle for more than 5 minutes. The demo will stop if you press any button except **CD MODE** on the main unit .

- To switch the demo mode off completely, press and hold CD MODE on the main unit for about 3 seconds while the demo is in progress.
- To switch the demo mode on, press and hold CD MODE on the main unit for about 3 seconds while the system is in standby.

#### Screen sizes and disc formats

The table below shows the effect of various TV Screen settings on the different kinds of disc available.

#### When viewing a widescreen TV or monitor

Setting and appearance



16:9 (Wide)

#### Screen format of disc

Widescreen (movies, etc.) Note that some extra-wide formats (such as CinemaScope) will appear with black bars at the top and bottom of the screen.



#### **Standard (TV programs, etc.)** Your TV will determine how the picture is presentedcheck the manual that came with the TV for details. Typical options are black bars either side, some form of stretched or zoomed presentation.

#### When viewing a standard size TV or monitor

Setting and appearance



Any setting



4:3 (Letter Box)



4:3 (Pan & Scan)



16:9 (Wide)

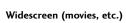
#### Screen format of disc

Standard (TV programs, etc) The program is presented correctly, regardless of the setting.

#### The program is shown in widescreen with black bars at the top and bottom of the screen.

Widescreen (movies, etc.)

Widescreen (movies, etc.) The sides of the program are cropped so that the picture fills the whole screen.



The program appears squashed: set to either 4:3 (Letter Box) or 4:3 (Pan & Scan).

### **Specifications**

#### **Amplifier Section**

Continuous power output (RMS)

Front	100 W, per channel
	(1 kHz, 10 % T.H.D., 8 Ω)
Rear	33 W, per channel
	(1 kHz, 10 % T.H.D., 8 Ω)
Center	34 W, per channel
	(1 kHz, 10 % T.H.D., 8 Ω)
Subwoofer	. 100W (100Hz 10% T.H.D., 8Ω)

### **DVD Player (Audio) Section**

115 dB (EIAJ)
100 dB (EIAJ)
0.004%
4 Hz to 22 kHz
4 Hz to 44 kHz
Below measurable levels

### **DVD Player (Video) Section**

Output level	'	1 Vp-f	o (75	Ω)
Video Y output level	'	1 Vp-p	o (75	Ω)
Video C output level 28	86	mVp-p	, (75	Ω)

#### **DVD (Other jacks) Section**

Digital coaxial input (PCM/DD/DTS) ...... Coaxial connector

#### **Tuner Section**

FM tuner

Frequency range	
Antenna	75 $\Omega$ unbalanced
AM tuner	
Frequency range 530 kHz to	
Antenna	loop antenna (supplied)

#### **Power Supply Section**

Power requirements	AC 120 V, 60 Hz
Power consumption	166 W
Power consumption in standby mode	1 W

#### Miscellaneous

#### Speaker system (S-HTD510)

(Front Speaker x 2, Rear Speaker x 2, Center Speaker x 1, Subwoofer x 1)

#### Front speaker

Enclosure	Closed-box bookshelf type
	(magnetically shielded †)
System	10 cm (4 in.) 2-way system
Speaker	
Woofer	10 cm (4 in.) cone type
Tweeter	5.2 cm (2 in.) cone type
Nominal impedance	

Max. input	100 W
Dimensions	150 (W) x 270 (H) x 178 (D) mm
	5 <sup>7</sup> /8 (W) x 10 <sup>5</sup> /8 (H) x 7 (D) in.
Weight	2.0 kg (4 lbs. 7 oz.)

#### Rear speaker

Enclosure	Closed-box bookshelf type
System	8.7 cm (3 <sup>7</sup> /16 in.) 1-way system
Speaker	
Nominal impedance .	
Frequency range	120 to 20,000 Hz
Max. input	
Dimensions	115 (W) x 150 (H) x 96 (D) mm
	$4 \frac{1}{2}$ (W) x 5 $\frac{7}{8}$ (H) x 3 $\frac{3}{4}$ (D) in.
Weight	0.8 kg (1 lbs. 12 oz.)

#### Center speaker

Enclosure	Closed-box bookshelf type
	(magnetically shielded †)
System	
Speaker	8.7 cm (3 <sup>7</sup> /16 in.) (cone type)
Nominal impedance	
Frequency range	80 to 20,000 Hz
Max. input	
Dimensions	
	14 <sup>9</sup> /16 (W) x 4 <sup>3</sup> /4 (H) x 5 <sup>1</sup> /8 (D) in.
Weight	1.8 kg (4 lbs.)

#### Subwoofer

Enclosure	Bass reflex floor type
System	16 cm (6 <sup>5</sup> /16 in.) 1 -way system
Speaker	16 cm (6 <sup>5</sup> /16 in.) (cone type)
Nominal impedance	
Frequency range	30 Hz to 2000 Hz
Max. input	100 W
Dimensions	190 (W) x 360 (H) x 327 (D) mm
7 <sup>1</sup> /2	(W) x 14 $^{3}/16$ (H) x 12 $^{7}/8$ (D) in.
Weight	4.8 kg (10 lbs. 9 oz.)

† Antimagnetic design (EIAJ) speaker system conforms to the basic EIAJ standards.

#### **Supplied Items**

Remote control	1
AA/R6P dry cell batteries	2
AM loop antenna	1
FM antenna	1
Video cord (yellow)	1
Power cord	1
Speaker cords	
5m (16 ft. 5 in.) (for front L-R speakers)	2
2m (6 ft. 7 in.) (for center speaker)	1
6m (19 ft. 8 in.)(for rear L-R speakers)	2
3m (9 ft. 10 in.) (for subwoofer)	1
3m (9 ft. 10 in.) (for subwoofer) Operating instructions	
	1

Note:

 Specifications and design subject to possible modification without notice, due improvements. Should this product require service in the U.S.A. and you wish to locate the nearest Pioneer Authorized Independent Service Company, or if you wish to purchase replacement parts, operating instructions, service manuals, or accessories, please call the number shown below.

800-421-1404

Please do not ship your product to Pioneer without first calling the Customer Service Department at the above listed number for assistance.

#### PIONEER ELECTRONICS SERVICE, INC. CUSTOMER SERVICE DEPARTMENT P.O. BOX 1760, LONG BEACH, CA 90801-1760, U.S.A.

For warranty information please see the Limited Warranty sheet included with your product.

Should this product require service in Canada, please contact a Pioneer Canadian Authorized Dealer to locate the nearest Pioneer Authorized Service Company in Canada. Alternatively, please contact the Customer Service Department at the following address:

Pioneer Electronics of Canada, Inc. Customer Service Department 300 Allstate Parkway, Markham, Ontario L3R OP2 (905) 479-4411 1-877-283-5901

For warranty information please see the Limited Warranty sheet included with your product.

Si ce produit doit être réparé au Canada, veuillez vous adresser à un distributeur autorisée Pioneer au Canada pour obtenir le nom de la Société de Service Autorisée Pioneer le plus près de chez vous. Ou encore, veuillez communiquer avec le Service de Clientèle de Pioneer:

> Pioneer électroniques du Canada, Inc. Département de service aux consommateurs 300 Allstate Parkway, Markham, Ontario L3R OP2 (905) 479-4411 1-877-283-5901

Pour obtenir des renseignements sur la garantie, veuillez vous reporter au feuillet sur la Garantie Limitée qui accompagne le produit.

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